

2003 AFCEE Technology Transfer Workshop San Antonio, Texas

Promoting Readiness through Environmental Stewardship

Restoration Program Optimization

Matrix and Metrics

Lt Col Daniel Welch HQ Defense Logistics Agency 26 February 2003



Overview

- Background
- RPO Matrix
- Basic Information
- Costs
- Implementation Tracking
- Graphical Representation
- Root Cause Table
- Identify Exit Goal



RPO Historical Development

- Conceptual Development -----1998
- Guidance Preparation/Beta Test-----1999
- Guidance Revision/Implementation----2001
- Matrix and Metrics Development-----2002



Restoration Program Optimization (RPO)

Definition:

Iterative Systematic Planning

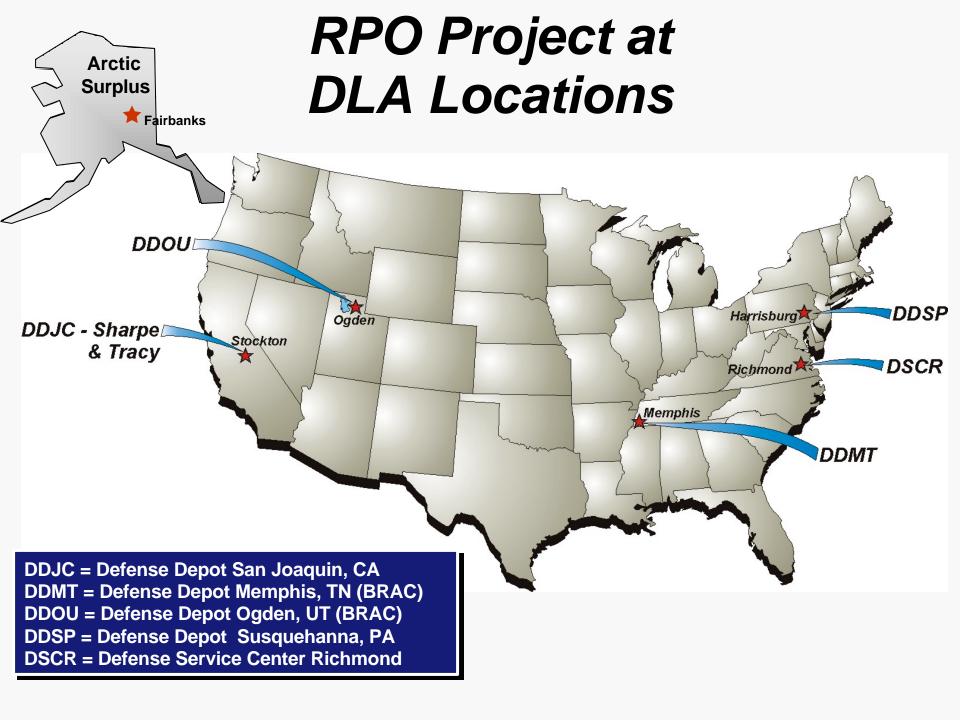
Holistic Evaluation of the Existing Restoration Program with the Goal of Improving Overall:

- Risk Control Effectiveness
- Timely Site Cleanup
- Cost Effectiveness
- Timely Feedback to Decision Makers



RPO Names

- Remedial Process Optimization
 - (AFCEE 1999)
- Remediation Process Optimization
 - (ITRC 2002)
- Restoration Program Optimization
 - (DLA 2002)





Significant Successes

- DDOU All Operational Unit attained No Further Action (NFA) or Demonstrated that they were Operating Properly and Successfully (OPS)
 - Entire Installation was transferred Oct 2002. Returned to productive use
 - Created 700 new jobs



Significant Successes

Arctic Surplus Site is being remediated at $\frac{1}{4}$ of the original proposal cost, in $\frac{1}{4}$ of the time, and with less restrictive land use controls (LUCs)









MATRIX

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RPO Matrix Basic Information & Status

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Rec Num	RPO Report & Section ID; Recommendation	Status of Recommendation	Action Item (OPR/POC) Action Item RPO Team	FY Program	Projected Outyears
			Base/Hertzog - Present proposal to		
			regulators		
			EarthTech/Manish - Prepare modified		
	RSV Rept July 2001 Sec. 1	Proposed to regulators (xx Nov 200x).	LTM work plan and get approval.		
	- pg 26;	Letter sent on xx June 200x. ADEC	Implement MOD LTM work plan		
		Approval letter received xx Sept 200x.	RPO team - Review Work Plan & provide		Programed through
1	for Eskimo Creek	Contractor AAA implementing Task.	field oversight	03	2015
			Base/Hertzog - Contract AF BEE &		
	RSV Rept July 2001 pg		request air quality sampling		
	33;		EarthTech/Manish - Sample air and		
	Univ of Alaska, Galena		analyze by TO14		No outyear work
	Aircraft Maintenance	Accepted for implementation by all	RPO team - Review Work Plan & provide		Completion date
2	School Air Quality	stakeholders	field oversight	03	Sept 2002
			Race. Contract and Implement		



RPO Matrix Basic Information

Rec Num	RPO Report & Section ID; Recommendation	Status of Recommendation
1	- pg 26;	Proposed to regulators (Nov 2001). Letter sent on Jan 2002. ADEC Approval letter received May 2002. Contractor AAA limplementing Task.
2	RSV Rept July 2001 pg 33; Univ of Alaska, Galena Aircraft Maintenance School Air Quality	Accepted for implementation by all stakeholders



RPO Matrix Recommendation Status

Action Item (OPR/POC)	FY	Projected
	_ ' '	-
Action Item RPO Team	Program	Outyears
Base/Hertzog - Present proposal to		
regulators		
EarthTech/Manish - Prepare modified		
LTM work plan and get approval.		
Implement MOD LTM work plan		
RPO team - Review Work Plan & provide		Programed through
·		I
field oversight	03	2015



RPO Matrix Cost & Avoidance Information

RPO Estimated Cost Avoidance Annual/Life Cycle	RPO Cost	Cost to Implement Recommendation	Documented Cost Avoidance Annual/Life Cycle
\$157K/\$2.4M	\$30K	\$ 25K	\$ 78K/ISD
N/A		\$ 50 K	N/A



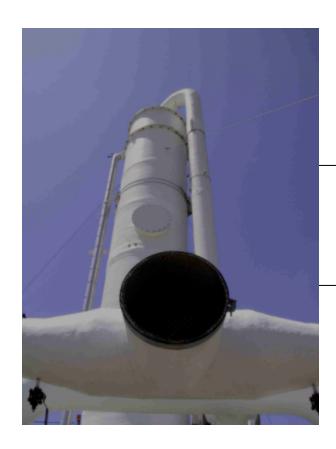
RPO Matrix Risk and Time Issues

Risk Assessment Issues	Impact on Time to Cleanup
Risk to students identified. Letter sent to school superintendent. RPO team recommends Risk Assessment	Interim remedial action taken to prevent vapors from entering building

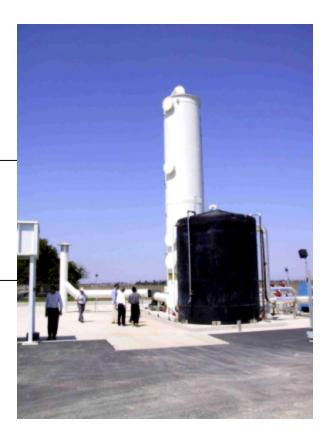


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METRICS



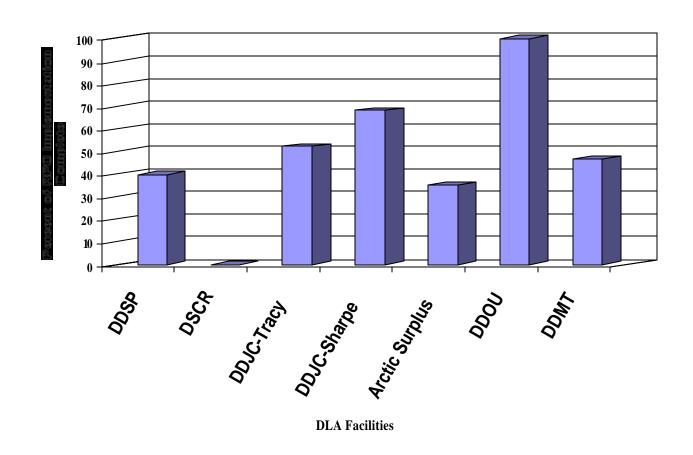


RPO Matrix METRICS

Results Presented and Approved by Stakeholders Y/N	Implementation Contract Awarded Y/N	Implementation Work Plan Approved Y/N	LTM, RA-O Optimized Y/N	OPS NFA Y/N	Ratio RPO Metric Points/ Total Points	Completed or Liked to
Υ	Y	Y	N	N/A	3 of 4	linked to 34
Υ	Y	Y	N/A	N/A	3 of 3	linked to 23 35, and 76

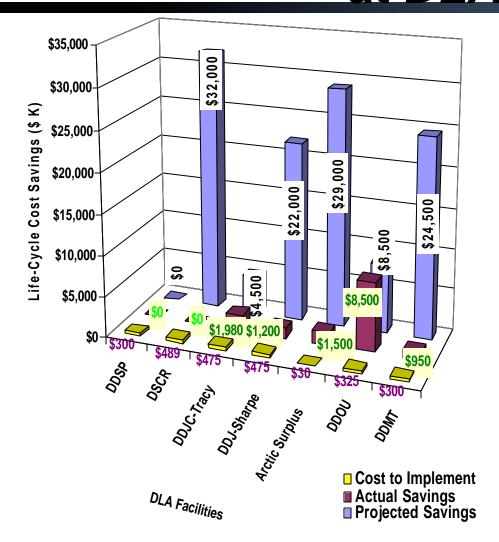


RPO Progress at DLA Facilities





RPO Life Cycle Cost Avoidance at DLA Facilities





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ROOT CAUSES









Root Cause of Deficiencies

Deficiency	Root Cause	Solution	Impact on Project
Plume data may be available	Lack of training	Incorporate tracking/modeling	Facilitate
but not always		of COC concentrations into	interpretation of
tracked/analyzed		work planning documents	plume behavior
	Lack of training	Incorporate requirement for	Facilitate decision-
Decision logic (rules/trees) are		decision logic into project	making, and
seldom developed		scoping document	expedite site closure
	Lack of training	Incorporate into scoping	Better decisions will
Conceptual site models not		documents requirement to	be made based on
updated or based on		update CSM at specific points	an accurate CSM
limited/poor data		in project life-cycle	
	Contractor lacks capability,	Require contractor to possess	
Restoration data and	requirement not present in	capability, scope electronic	
information not always	project scoping document	data deliverables into project	Facilitate use of data
accessible in electronic format		requirements	to make decisions
	Service center does not	Develop cost-tracking table and	Facilitate funding
Cost tracking and schedule to	account for costs in a way that	require service center to	decisions, as well as
complete often inadequate to	facilitates tracking cost data or	maintain table with accurate	evaluation of
support decision making	life-cycle costs by site	data	alternatives
	Service center and field	Establish requirement to	Maintain focus on
	contractor not focused on exit	develop and update exit	exit from site,
	strategy	strategy in scoping document	shorten time to site
Exit Strategy not developed		for project	closure